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For the server\util_md5.c component:

NCSA HTTPd Server
Software Development Group
National Center for Supercomputing Applications
University of Illinois at Urbana-Champaign
605 E. Springfield, Champaign, IL
61820 httpd@ncsa.uiuc.edu

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For the `src/lib/apr-util/crypto/apr_md4.c` and `src/lib/apr-util/include/apr_md4.h` components:

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For the pcre component:

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Written by: Philip Hazel [<ph10@cam.ac.uk>](mailto:ph10@cam.ac.uk)

University of Cambridge Computing Service,
Cambridge, England. Phone: +44 1223 334714.

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

For the expat xml parser component:

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Clipboard.js 1.5.8

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Colorama 0.3.9

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Dgrid/Dgrid1

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Framework7

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gdal/frmts/gtiff/tif_float.c

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gdal/ogr/ogrsf_frmts/dxf/intronurbs.cpp

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gdal/alg/thinplatespline.cpp

IEEE754 log() code derived from:
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`gdal/frmts/pdf/pdfdataset.cpp (method PDFiumRenderPageBitmap())`

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GI-matrix

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Files:

```
make/stub_includes/opengl/**
make/stub_includes/egl/**
make/stub_includes/khr/**
make/stub_includes/openmax/**
```

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Files:

src/jogamp/graph/geom/plane/AffineTransform.java

src/jogamp/graph/geom/plane/IllegalPathStateException.java

src/jogamp/graph/geom/plane/NoninvertibleTransformException.java

src/jogamp/graph/geom/plane/PathIterator.java

src/jogamp/graph/geom/plane/Path2D.java

src/jogamp/graph/math/plane/Crossing.java

src/org/apache/harmony/misc/HashCode.java

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Typecast

=====

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<<https://java.net/projects/typecast>>

Author: David Schweinsberg

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Files:

`src/jogl/classes/jogamp/graph/font/typecast/ot/*`

`src/jogl/classes/jogamp/graph/font/typecast/ot/table/*`

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`src/jogl/classes/jogamp/graph/font/typecast/ot/*`

`src/jogl/classes/jogamp/graph/font/typecast/ot/mac/*`

`src/jogl/classes/jogamp/graph/font/typecast/ot/table/*`

`src/jogl/classes/jogamp/graph/font/typecast/tt/engine/*`

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Files:

`src/jogamp/graph/font/fonts/ubuntu/*`

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Files:

make/stub_includes/cg/CG/**

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PNGJ

====

PNGJ: Java library for reading and writing PNG images.

Version 1.12 (3 Dec 2012)

<<http://code.google.com/p/pngj/>>

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src/jogl/classes/jogamp/opengl/util/pngj/**

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in `src/lib/gssapi`, including the following files:

```
lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
```

```
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
```

and the initial implementation of incremental propagation, including the following new or changed files:

```
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
```

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Libgcc_s.so.1

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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liblzma 5.x

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=====

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(for libpng 0.5 through 1.6.35)

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Libstdc++ Runtime Library **Libstdc++.so6.024 Runtime Library**

GCC RUNTIME LIBRARY EXCEPTION
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The Persian analyzer (contrib/analyzers) comes with a default stopwords list that is BSD-licensed created by Jacques Savoy. The file resides in contrib/analyzers/common/src/resources/org/apache/lucene/analysis/fa/stopwords.txt. See <http://members.unine.ch/jacques.savoy/clef/index.html>.

Includes lib/servlet-api-2.4.jar from Apache Tomcat
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freetype 2.8- 2

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nghttp2 1.26.0

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OpenGL Sample Implementation

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Pandas 0.16.1

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Pip 9.0.1

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Pointer Events PolyFill 0.4.1

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Psycopg2

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Additional Help:

Peter Fein contributed a logging connection/cursor class that even if it was not used directly heavily influenced the implementation currently in `psycopg2.extras`.

Jan Urbański (re)started the work on asynchronous queries and contributed both on that and on other parts of `psycopg2`.

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Put-selector

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PyParsing 2.0.3

PyParsing 2.2.0

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Pytest 3.2.1

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.5 of 10 December 2007

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Python 2.7.7

See below.

Python 2.7.10

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=====

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes

2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
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2.7	2.6	2010	PSF	yes

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Python 3.4.4/3.4.5

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
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2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes

3.1.5	3.1.4	2012	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.2.3	3.2.2	2012	PSF	yes
3.3.0	3.2	2012	PSF	yes
3.3.1	3.3.0	2013	PSF	yes
3.3.2	3.3.1	2013	PSF	yes
3.4.0	3.3	2013	PSF	yes

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ResizeObserver polyfill v1.5.0

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@author Stoyan Stefanov <sstoo@gmail.com>

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Rxjs 6.2.2

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Six 1.9.0

Six 1.10.0

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Splitjs v1.5.4

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Squish DXT Compression Library

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Store.js V1.3.16

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SVProgressHUD 2.2.1

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The code for the t-digest was originally authored by Ted Dunning

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Xlrd 0.9.3

Xlrd 1.1.0

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Xlwt 0.7.4

Xlwt 1.0.0

Xlwt 1.3.0

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XVFB for X11

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Bundled Libraries:

***** Base 64 Library (base64/base64.hpp) *****

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base64.cpp and base64.h
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René Nyffenegger rene.nyffenegger@adp-gmbh.ch

***** SHA1 Library (sha1/sha1.hpp) *****

sha1.hpp is a repackaging of the sha1.cpp and sha1.h files from the shallsha1 library (<http://code.google.com/p/smallsha1/>) into a single header suitable for use as a header only library. This conversion was done by Peter Thorson (webmaster@zaphoyd.com) in 2013. All modifications to the code are redistributed under the same license as the original, which is listed below.

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***** MD5 Library (common/md5.hpp) *****

md5.hpp is a reformulation of the md5.h and md5.c code from <http://www.opensource.apple.com/source/cups/cups-59/cups/md5.c> to allow it to function as a component of a header only library. This conversion was done by Peter Thorson (webmaster@zaphoyd.com) in 2012 for the WebSocket++ project. The changes are released under the same license as the original (listed below)

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L. Peter Deutsch
ghost@aladdin.com

***** UTF8 Validation logic (utf8_validation.hpp) *****

utf8_validation.hpp is adapted from code originally written by Bjoern Hoehrmann <bjoern@hoehrmann.de>. See <http://bjoern.hoehrmann.de/utf-8/decoder/dfa/> for details.

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Xvfb V1.19.3
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```
/* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.8, April 28th, 2013
```

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```
/* zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.11, January 15th, 2017
```

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zlib was written by Jean-loup Gailly (compression) and Mark Adler (decompression).

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Jean-loup Gailly Mark Adler
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Zlib.js

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Zone.js.0.6.12
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Zstandard 1.3.4

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ZXing CCP

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jai-imageio
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Version 3, 29 June 2007

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AdoptOpenJDK JRE 11	GPL V2.0 with Classpath Exception	ArcGIS for Server 10.7.0, Portal for ArcGIS 10.7.0, ArcGIS Data Store 10.7.0
AJV (Another JSON Schema Validator V4.11)	MIT and Public Domain	Portal 10.6, ArcGIS Online Web Scene Viewer, ArcGIS API for JavaScript 4.4
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Akka	Apache License 2.0	ArcGIS GeoEvent Extension for Server
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Extend	MIT	AppStudio for ArcGIS 1.0
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GEOS V3.5.0	LGPL 2.1	ArcGIS 10.5, ArcGIS Pro 1.4
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GLEW 1.5	BSD License	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server, ArcReader 10.3.1, ArcGIS Runtime SDKs 10.2.x, ArcGIS Explorer

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Globalize-compiler	MIT	Survey123 website, 2.8 release
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Guava	Apache License 2.0	ArcGIS for Server 10.4, Navigator for ArcGIS 2.0
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Hadoop-hdfs-native-client	Apache License 2.0	ArcGIS for Server 10.7
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HazelCast	Apache License 2.0	ArcGIS GeoEvent Extension for Server, ArcGIS for Server 10.7, Portal for ArcGIS 10.7
HDF4	BSD License	ArcGIS 10.3.1 for Server
HDF5	BSD License	ArcGIS 10.3.1 for Server
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HikariCP	Apache License 2.0	ArcGIS Server 10.6.1
HPPC	Apache License 2.0	ArcGIS Data Store 10.5
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HTML Filtering for Java	CC-BY-SA 2.5	ArcGIS 10.3.1 for Server
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IziToast V1.4.0	Apache License 2.0	Excalibur V1.0
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JSZip	MIT	Business Analyst Web App, Community Analyst ver. 5.2+
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Jackson 2.6.3	Apache License V2.0	CityEngine 2016.0
Jackson JSON processor 1.9.3	Apache License V2.0	ArcGIS for Server 10.4
Jackson JSON Processor	GNU Lesser General Public License 2.1; Apache License 2.0	ArcGIS 10.3.1 for Server (Java Spatial Data Server); ArcGIS GeoEvent Extension for Server, ArcGIS Runtime SDK for Android and Java 10.2.x

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Java Server Faces 1.1_01	Sun Binary Code License Agreement	ArcGIS 10.3.1 for Server
JSON in Java	MIT LICENSE	ArcGIS 10.3.1 for Server
Java Runtime (JRE) 1.8.0_65	Oracle Binary Code License Agmt	ArcGIS for Server 10.4, Portal for ArcGIS 10.4, ArcGIS Datastore 10.4,
Java 1.8.0_101 Java 1.8.0_111 Java 1.8.0_121	Oracle Binary Code License Agmt	ArcGIS for Server 10.5, Portal for ArcGIS 10.5, ArcGIS Data Store 10.5, ArcGIS for Server 10.5.1, Portal for ArcGIS 10.5.1, ArcGIS Datastore 10.5.1
Java 1.8.0_144 Java 1.8.0_151	Oracle Binary Code License Agmt 21 September 2017	ArcGIS for Server 10.6, ArcGIS for Server 10.6, Portal for ArcGIS 10.6, ArcGIS Data Store 10.6, ArcGIS Desktop-ArcMap 10.6
Java Native Access	Apache License 2.0	ArcGIS for Server 10.7, ArcGIS DataStore 10.7, Portal for ArcGIS 10.7, ArcGIS Monitor
JavaScript MD5	MIT	WebAppBuilder for ArcGIS
Java Server Pages Standard Tag Library	Sun License	ArcGIS 10.3.1 for Server (Spatial Data Server)
Java Service 2.0.10	GNU Lesser General Public License 2.1	ArcGIS 10.3.1 for Server

Java.util.concurrent 2.1	Public Domain	ArcGIS 10.3.1 for Server
Javax.mail 1.4	Oracle Binary Code License Agmt	Esri Maps for Cognos
JAXB 2.0	Common Development and Distribution License	ArcGIS 10.3.1 for Server
Jaxrpc 1.1	Sun Microsystems License	Esri Maps for Cognos
JAX-RS Jersey 1.1.5	Common Development and Distribution License (CDDL)	ArcGIS 10.3.1 for Server
JDOM	Apache-style license: http://www.idom.org/docs/faq.html#a0030	ArcGIS GeoEvent Extension for Server
Jcifs	GNU Lesser General Public License 2.1	ArcGIS Runtime SDKs 10.2.x
Jimp	MIT	Web AppBuilder for ArcGIS (Developer Edition)
JodaTime	Apache License 2.0	ArcGIS GeoEvent Extension for Server; Portal for ArcGIS 10.3.1
JodaTime 2.8.2	Apache License 2.0	ArcGIS Data Store 10.5
JRE 1.7.0_76	Oracle Binary Code License Agreement for the Java SE Platform Products and JavaFX	ArcGIS 10.3.1 for Server, Portal for ArcGIS 10.3.1, ArcGIS 10.3.1 Data Store, ArcGIS Runtime SDKs 10.2.x, Tracking Server 10.3.1,
JSON Editor V5.9.6	Apache License 2.0	Portal 10.6, ArcGIS Online Web Scene Viewer, ArcGIS API for JavaScript 4.6
JSON in Java	MIT License	ArcGIS 10.3.1 for Server

JSONCPP	MIT License Modified	ArcGIS pro 1.4, ArcGIS for Server 10.5.1
Json4s 3.6	Apache License 2.0	10.6 ArcGIS Data Store
JSON.Net	MIT License: http://json.codeplex.com/license	ArcGIS GeoEvent Extension for Server, Drone2Map
JogAmp JOGL 2.2.4	New BSD 2-Clause License with other licensed materials	CityEngine 2008-2016
Jolokia	Apache License 2.0	ArcGIS GeoEvent Extension for Server
JQuery 1.3.1	MIT License: https://jquery.org/license/	ArcGIS 10.3.1 for Desktop, ArcGIS GeoEvent Extension for Server
Jquery 2.1.4	MIT	Insights for ArcGIS 1.0
JQuery	MIT	ArcGIS WebApp Builder, Survey123 Website, Survey123 Hub v1
JQuery.i18n.properties	MIT	AppStudio for ArcGIS 1.0
JQuery-minicolors	MIT	AppStudio for ArcGIS 1.0
JQuery.qrcode.js	MIT	AppStudio for ArcGIS 1.0
JQuery_request	MIT	AppStudio for ArcGIS 1.0
JQuery UI	MIT / Public Domain https://jquery.org/license/	CityEngine 2017
JQuery XML to JSON Plugin	MIT License: https://jquery.org/license/	ArcGIS GeoEvent Extension for Server

Js-cookie	MIT	AppStudio for ArcGIS 1.0, Survey123 Hub v1
Jsep 0.3.0	MIT License	Insights for ArcGIS 1.0
JS-Doc Toolkit 2.1.0	MIT License	ArcGIS 10.3.1 for Server, ArcGIS 10.3.1 Engine
JSONCPP	JSONCPP License	ArcGIS Pro 1.4, ArcGIS 10.5.1 for Server
Json-simple 1.1	Apache License 2.0	ArcGIS Server 10.6, ArcGIS DataStore 10.6, Portal for ArcGIS 10.6
Jsoup 1.9.1	MIT License	ArcGIS Server 10.6, ArcGIS DataStore 10.6, Portal for ArcGIS 10.6
jsPDF 1.3.4	MIT License	
JsPlumb	Dual License: MIT and GPLv2	ArcGIS GeoEvent Extension for Server
Jsr166e 1.1.0	CC0	ArcGIS Data Store 10.5
JSS	MIT License	Survey 123 Website V3.1
Jss-preset-default	MIT License	Survey 123 Website V3.1
Js-xss	MIT License	Story Maps 2.0
JSZip	MIT License	ArcGIS WebApp Builder
JTS Topology Suite 1.13	LGPL V3.0	ArcGIS for Server 10.4

Jupyter 1.0	BSD	Portal for ArcGIS 10.5
Jupyterhub 0.3	BSD	Portal for ArcGIS 10.5
Jython 2.7	The Jython License	CityEngine 2016.0
Kdtree.js	MIT	ArcGIS API for JavaScript
Kerberos V5 1.16.1	MIT	ArcGIS Server 10.7 Linux
Kevva	MIT	Enketo viewer 1.11
Kryo	BSD	ArcGIS for Server GeoEvents Extension 10.4
Ladda for Bootstrap 3	MIT	Survey123 Website
LAPACK	BSD License	ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server
LAS Optimizer 1.2.4	Apache License 2.0	Drone2Map v 1.3
LasZIP	GNU Lesser General Public License 2.1	ArcGIS Pro 2.1, ArcGIS Server 10.6
Liblconv	GNU Lesser General Public License 2.1	ArcGIS Pro Version 1.1
LibCurl	X11 License	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server, ArcReader 10.3.1, ArcGIS Runtime SDKs10.2.x, Production Mapping 10.3.1

Libcurl 7.45.0	MIT	AGDT, AGS, AEngine 10.4
Libcurl 7.47.1	MIT	ArcGIS Server, ArcGIS Desktop and ArcGIS Engine, Version 10.4.1
LibCurl 7.49.1	MIT	ArcGIS Server, ArcGIS Desktop and ArcGIS Engine, Version 10.5.
Libiodbc	BSD	ArcGIS 10.3.1 for Server
Libjpg-turbo 2.5.2	BSD License; See also http://www.ijg.org/files/README	ArcGIS Runtime SDKs 10.2.x
Liblzma 5.x	Public Domain with dependencies	ArcGIS 10.5
LibMorton	MIT License	ArcGIS Pro 1.5, ArcGIS for Server 10.5.1
Libpng 1.2.56	Libpng license	ArcGIS Server 10.5, ArcGIS Portal 10.5, ArcGIS Data Store 10.5 ArcGIS Runtime
libpng PNG Support (RDO & Core) 1.2.0	zlib license	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server, ArcReader 10.3.1, ArcGIS Runtime SDKs 10.2.x, ArcGIS 10.3.1 for Maritime: Server
libpng 1.6.28	Libpng license	ArcGIS Desktop 10.5.1, ArcGIS Pro 2.0, ArcGIS Server 10.5.1

libpng 1.6.29	Libpng license	ArcGIS Server 10.6, ArcGIS Runtime (ArcGIS Portal 10.6
LibPNG 1.6.35	Libpng license	ArcGIS Pro 2.3
LibRaw	CDDL V1.0	CityEngine 2017
Libssh2 1.4.3	Libssh2 License	Production Mapping 10.3.1
Libstdc++ Runtime Library	GNU General Public License V3 (GCC Runtime Library Exception V3.1)	ArcGIS 10.3.1 for Server (Linux), ArcGIS Runtime SDKs 10.2.X , Esri Conda Channel for use with 10.5, Esri Conda Channel for use with 10.6.1, ArcGIS Server for Linux 10.7
LIBSVM 3.17	Modified BSD License	ArcGIS 10.3.1 for Desktop
Libtess	SGI Free Software License	ArcGIS 10.3.1, ArcGIS Runtime SDKs 10.2.x
Libtess.js V1.2.2	SGI FREE SOFTWARE LICENSE B	ArcGIS Runtime SDK 100.2.0 (update 2) All APIs, ArcGIS Api for JavaScript v 4.x
LIBXML	MIT License	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server, ArcReader 10.3.1
LibXML2	MIT License	ArcGIS 10.3.1 for Server (Linux)

LibXML2 2.9.3	MIT License	ArcGIS for Server 10.5
Libxml2 2.9.4	MIT License	ArcGIS for Server 10.5
Libxml2 2.9.8	MIT License	ArcGIS for Server Linux 10.7, ArcGIS Portal 10.7
Libxslt 1.1.28	MIT License	ArcGIS for Server 10.5
Libxsslt 1.1.29 Libxsslt 1.1.32	MIT License	ArcGIS for Server 10.5, ArcGIS for Server Linux 10.7, ArcGIS Portal 10.7
LittleCMS LittleCMS V2.8	MIT License MIT License	ArcGIS for Server 10.3.1 ArcGIS for Server 10.5.1
LLVM libc++	University of Illinois/NCSA Open Source License	Esri Conda Channel for use with 10.6.1 ArcGIS Server for Linux
log4js	Apache License 2.0	Web AppBuilder for ArcGIS (Developer Edition)
log4net V2.0.8	Apache License 2.0	ArcGIS Earth V1.8
Lucene-Core 3.4	Apache License 2.0	ArcGIS Runtime SDKs 10.2.x
Lucene Java 2.4	Apache License 2.0	ArcGIS 10.3.1 for Server
Lucene .NET 2.0.0.4	Apache License 2.0	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 for Server, Business Analyst Server 10.3.1, ArcGIS Explorer
Lucene.NET 3.0.3	Apache License 2.0	ArcGIS Pro 1.4
Lyra	Apache License 2.0	ArcGIS 10.3.1 Engine, ArcGIS GeoEvent Extension for Server

LZMA SDK	Public Domain	ArcGIS 10.3.1 Engine
MahApps.Metro	Ms-PL	Drone2Map
Maquette.js v2.4.0	MIT	ArcGIS API for JavaScript v4
MapBox GL	MapBox GL native License	Survey123 for ArcGIS V1.0
Masonry: 1.1.0	MIT License	ArcGIS Earth iOS Beta
Mathjs 2.7.0	Apache License 2.0	Insights for ArcGIS 1.0
Matplotlib 1.3.0	Matplotlib License 1.3.0	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 for Server, ArcGIS 10.3.1 Engine
Matplotlib 1.4.3	Python License (based on)	AGDT, AGServer, AEngine 10.4
Matplotlib 2.0.2	Python License (based on)	ArcGIS Pro 2.1
Mesa 11.2.1 Mesa 11.2.2	MIT License MIT License	ArcGIS for Server 10.5, ArcGIS for Server 10.5.1
Mesa 17.0.5	MIT License	ArcGIS Server 10.6
Mesa 18.1.4	MIT License	ArcGIS Server Linux 10.7, ArcGIS Portal 10.7
MetadataExtractor	Apache License 2.0	Drone2Map
METIS V5.1.0	Apache License 2.0	ArcGIS Desktop 10.5.1, ArcGIS Server 10.4, ArcGIS Pro 2.0

Microsoft Azure Data Lake Store Hadoop Connector 2.8.0	Apache License 2.0	ArcGIS Enterprise 10.6
Microsoft Azure Data Lake Store Java SDK 2.1.4	MIT License	ArcGIS Enterprise 10.5.1
Microsoft Azure DocumentDB Hadoop 1.2.9	MIT License	ArcGIS Enterprise 10.6
Microsoft Azure DocumentDB Java SDK 1.8.0	MIT License	ArcGIS Enterprise 10.6
Microsoft Azure Management Libraries 2.0.0	Apache License 2.0	ArcGIS Server Cloud Builder for Microsoft Azure 10.5
Microsoft Azure SDK for .Net 2.8	MIT License	ArcGIS Server Cloud Builder for Microsoft Azure 10.5
Microsoft Azure Storage SDK V.4.2.0, V7.0.0	Apache License 2.0	Esri ArcGIS for Server 10.5 and later version. Portal for ArcGIS 10.5 and later. Esri ArcGIS for Server 10.6.1 and later version. Portal for ArcGIS 10.6.1 and later.
Microsoft Computational Network Toolkit (CNTK)	MIT License	ArcGIS Pro 2.1, ArcGIS Server 10.6.1
Microsoft Prism Library 6.1.0 for WPF	Apache License V2.0	Drone2Map
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MigraDoc	MIT License	ArcGIS Earth V1.0
MIME Pull	CDDL	ArcGIS 10.3.1 for Server (Spatial Data Server)
MinGW-w64 Project	Public Domain/MIT License	ArcGIS Server 10.6.1

MiniWeb	LGPL 2.0	Esri Maps for Office 3.0
MMap64 Android 5.0	MIT	ArcGIS Runtime SDK for Android 100.1.0
Moment (JavaScript library)	MIT	Survey123 Website, Survey123 Hub v1, ArcGIS API for JavaScript
MongoDB	Apache V2.0	ArcGIS WebApp Builder
Mpmath 0.19	BSD	ArcGIS Pro 2.1
Multer	MIT	AppStudio for ArcGIS 1.0
MX4J 3.0.1	Apache License 1.1	ArcGIS 10.3.1 for Server
NetCDF 4.0	BSD License	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine
NetCDF4 1.2.9	MIT	ArcGIS Pro 2.1
NetCDF-Java Library	MIT	ArcGIS for Server GeoAnalytics Extension 10.4
Netty	Apache License 2.0	ArcGIS 10.3.1 for Server (Spatial Data Server)
Nextjs	MIT License	Story Maps 2.0
Ng2-bs3-modal	ISC License	Survey123 Hub v1
Ng2-dragula	MIT License	Survey123 Hub v1

Nghttp2 1.26.0	MIT License	ArcGIS 10.6.1, ArcGIS Pro 2.2
NGX-color	MIT License	Survey123 Website V3.1
NGX-Infinite Scroll	MIT License	Survey123 website, 2.1 release
NGX-Translate	MIT License	Survey123 website v1.10
Ning compress-lzf 1.02	Apache License 2.0 (Modified)	ArcGIS Data Store 10.5
Nlohmann-json	MIT License	ArcGIS Pro 2.3
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Node-FS	MIT	AppStudio for ArcGIS V1
NodeJS	MIT, BSD3, OpenSSL, ICO, Artistic 2.0, (multiples)	AppStudio for ArcGIS V1.0
Node-sqlite3	BSD	AppStudio for ArcGIS V1.0
Nodemailer	MIT	AppStudio for ArcGIS V1
Nose	GNU Lesser General Public License 2.1	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 for Server, ArcGIS 10.3.1 Engine, ArcGIS Pro 1.0
Nose 1.3.7	LGPL V2.0	AGDT, AGServer,AGEngine 10.4, ArcGIS Pro 1.0, ArcGIS Pro 2.1
Noto CJK	SIL Open Font License	ArcGIS Server 10.6 (Linux)

Noto Sans	SIL Open Font License	ArcGIS Server 10.6 (Linux)
Nscala-time	Apache License 2.0	ArcGIS GeoEvent Extension for Server
NTv2 – binary Grid Shift files, NB2783v2.GSB and NB7783v2.GSB	GeoNB Open Data License	ArcGIS for Desktop/Server/Engine/Reader 10.5, Pro .4, AGOL, Portal (any software that ships the "pedata" folder or the ArcGIS Coordinate Systems Data setup).
NTv2-binary Grid Shift file, NTV2_0.gsb	Open Government License - Canada	ArcGIS for Desktop/Server/Engine/Reader 10.5, Pro .4, AGOL, Portal (any software that ships the "pedata" folder or the ArcGIS Coordinate Systems Data setup).
Numexpr 2.6.2	MIT	ArcGIS Pro 2.1
Numpy 1.9.2	BSD	AGDT, AGServer, AEngine 10.4, Drone2Map
Numpy 1.13.1	BSD	ArcGIS Pro 2.1
NVIDIA Texture Tools		CityEngine 2018.1, CityEngine SDK
Object.assign Polyfill	Public Domain	Business Analyst
Oculus Mobile SDK 3.2.1	Oculus License	ArcGIS 360 VR
OOXML Schemas (ooxml-schemas-1.4.jar)	Apache License 2.0	ArcGIS Server 10.7
Open Asset Import Library	BSD	Drone2Map
OpenCSV	Apache License 2.0	ArcGIS GeoEvent Extension for Server

OpenCVS 3.6	Apache License 2.0	ArcGIS for Server 10.5
OpenGLInsights	MIT	All ArcGIS Runtime SDK products (v100.1.0)- known as Update 1
OpenGL Sample Implementation	SGI Free Software License	CityEngine 2016
OpenGL Support	SGI Free Software License	ArcGIS 10.3.1 3D Analyst Extension, ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server
OpenLDAP 2.3	OpenLDAP Public License	ArcGIS 10.3.1 for Server
OpenLDAP 2.4.44	OpenLDAP Public License	ArcGIS for Server 10.5
Openpyxl	The MIT License	ArcGIS for Server 10.6, ArcGIS Pro. 2.1
Open-SAN S Font	Apache License V2.0	AppStudio for ArcGIS V1.0
OpenSceneGraph 2.6	OpenSceneGraph Public License	ArcGIS 10.3.1 for Desktop 3D Analyst, ArcGIS 10.3.1 for Server 3D Analyst, ArcGIS 10.3.1 Engine 3D Analyst, ArcGIS Runtime SDKs 10.0
Open-Sans	Apache License 2.0	CityEngine 2017.0
OpenSSL	OpenSSL License	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 for Server, ArcGIS Runtime SDKs10.2.x, Production Mapping 10.3.1, Esri Production Mapping 10.3.1
OpenSSL Library V1.0.1j	OpenSSL License	AppStudio Player for ArcGIS v1 and AppStudio for ArcGIS Desktop Edition v1
OpenSSI 1.0.2g	OpenSSL License	ArcGIS Engine, ArcGIS Desktop and ArcGIS Server, version 10.4.1, 10.5

OpenSSL 1.0.2h	OpenSSL License	ArcGIS Engine, ArcGIS Desktop and ArcGIS Server version 10.5. Also ArcGIS Pro version 1.4, ArcGIS Runtime SDK for Qt, Windows and Linux, Android, iOS-Quartz v. 100.0
OpenSSL 1.0.2j	OpenSSL License	ArcGIS Engine, ArcGIS Desktop and ArcGIS Server, Version 10.45, ArcGIS Pro Version 1.4
OpenSSL 1.0.2k	OpenSSL License	ArcGIS for Server 10.6, ArcGIS Portal 10.6, ArcGIS Enterprise Cloud Builder Command Line Interface for Amazon Web Services 10.6
OpenSSL 1.1.1	OpenSSL License	ArcGIS V10.7, ArcGIS Pro 2.3
Org.reflections: reflections: 0.9.10	WTFPL – Do What the Fuck You Want to Public License	ArcGIS Server V10.6.1
OSGeo proj.4	MIT	Esri Production Mapping 10.3.1
Otto	Apache License 2.0	Collector for ArcGIS (Android) 10.2.4, Navigator for ArcGIS 2.0
OverLIB 4.21	Artistic License	ArcGIS 10.3.1 for Server
P7zip	GNU Lesser General Public License 2.1	ArcGIS 10.3.1 Engine (Linux)
Pako	MIT	ArcGIS WebApp Builder, ArcGIS Maps for PowerBI
Pandas	BSD	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 for Server, ArcGIS 10.3.1 Engine, ArcGIS Pro 1.0
Pandas 0.16.1	BSD	AGDT, AGServer, AGEngine 10.4, ArcGIS Pro 1.0
Pandas 0.20.3	BSD	ArcGIS Pro 2.1

Paranamer	BSD	10.6 ArcGIS Data Store
PAR		
Pdf.js	Apache License 2.0	ArcGIS API for JavaScript
PDFium	BSD License	ArcGIS 10.7, ArcGIS Pro 2.3
PDFsharp	MIT License	ArcGIS Earth V1.0
PhantomJS.exe 2.1.1	BSD MIT, BSD, OpenSSL, GNU Lesser General Public License (original and 2.1) in dependencies	ArcGIS Pro 2.0
Phantom NPM	ISC License	Business Analyst Server 10.6.1 or 10.7
Pillow (python-pillow)	Python License	Drone2Map
Pion Network Library 3.0.19	Boost License	ArcGIS Runtime SDKs 10.2.x
Pip 9.0.1	MIT	ArcGIS Pro 2.1
Piwik Android SDK v1.0.2	BSD	Collector, Explorer, Workforce, Navigator, Operations Dashboard
Piwik iOS SDK v3.3.0	MIT	Collector, Explorer, Workforce, Navigator, Operations Dashboard

Piwik Javascript v3.0.0	BSD	Collector, Explorer, Workforce, Navigator, Operations Dashboard
PixieLib.NET 7.1 MFC Class Library	Custom License	ArcGIS 10.3.1 for Desktop ArcGIS 10.3.1 for Server, ArcGIS 10.3.1 Engine
Png.js	MIT	ArcGIS API for JavaScript
Pointer Events PolyFill 0.4.1	MIT License (Derivative)	Portal 10.5.1, ArcGIS Online Web Scene Viewer, ArcGIS API for JavaScript 4.2
Poly2Tri	BSD	Production Mapping 10.5.1
PostgreSQL 9.3.4;	PostgreSQL License	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server (Ubuntu AMI), Portal for ArcGIS 10.3.1, ArcGIS 10.3.1 Data Store
PostgreSQL 9.3.5	PostgreSQL License	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server (Ubuntu AMI), Portal for ArcGIS 10.3.1
PostgreSQL 9.3.10	PostgreSQL License	ArcGIS Data Store 10.4.1
PostgreSQL 9.5.3	PostgreSQL License	ArcGIS Desktop 10.5, ArcGIS Enterprise 10.5
PostgreSQL 9.6.3	PostgreSQL License	10.6 ArcGIS Data Store, 10.6 Portal for ArcGIS, ArcGIS for Desktop 10.6, ArcGIS Pro 2.1
PostgreSQL 10.6	PostgreSQL License	ArcGIS Data Store 10.7, Portal for ArcGIS 10.7
PPLX	Apache 2.0 License	ArcGIS 10.3.1 for Desktop ArcGIS 10.3.1 for Server, ArcGIS 10.3.1 Engine, ArcGIS Runtime SDKs 10.2.x
PptxGenJS V2.4.0	MIT License	Excalibur V1.0

Prism V5.0.0	Apache V2.0	ArcGIS Earth V1.0
Prism.Composition v5.0.0	Apache V2.0	ArcGIS Earth V1.0
Prism.Interactivity v5.0.0	Apache V2.0	ArcGIS Earth V1.0
Prism.MEFExtensions v5.0.0	Apache V2.0	ArcGIS Earth V1.0
Prism.Mvvm v1.0.0	Apache V2.0	ArcGIS Earth V1.0
Prism.PubSubEvents v1.0.0	Microsoft Custom License	ArcGIS Earth V1.0
PROJ. Version 4.4.8	MIT License	ArcGIS for INSPIRE
PROJ. Version 4.8.0	MIT License	ArcGIS for INSPIRE
Proj.4 V4.9.2	MIT License	CityEngine 2016.0
Promise Polyfill	MIT License	Business Analyst
Prototype	MIT License	ArcGIS 10.3.1 for Server
Prototype Window Class 0.70	MIT License	ArcGIS 10.3.1 for Server
Psycopg2	LGPL V2.1	ArcGIS Server V10.6.1
Public Icons	MIT License (Modified)	Open Data Hub Beta
Pug XML Parser 1.0002	Public Domain	ArcGIS 10.3.1 for Server
Put-selector	BSD License	ArcGIS API for JavaScript

Py 1.4.34	MIT	ArcGIS Pro 2.1
Py4J	BSD License	ArcGIS V10.7, ArcGIS Pro 2.3
PyParsing 2.0.3	MIT	AGDT, AGServer, AEngine 10.4
PyPDF 1.26.0	BSD License	ArcGIS Pro 2.1
Pytest 3.2.1	MIT	ArcGIS Pro 2.1
Python	Python License	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server, ArcGIS Runtime SDKs 10.2.x
Python 2.7.7	Python V2.7	AppStudio for ArcGIS V1
Python 2.7.10	Python V2.0	AGDT, AGServer, AEngine 10.4
Python 3.4.4	Python License	Portal for ArcGIS 10.5
Python 3.4.5	Python License	Portal for ArcGIS 10.5
Python 3.5.1	Python License	Drone2Map
Python 3.6.2	Python License	Portal for ArcGIS 10.6, ArcGIS Pro 2.1

Python 4.1.2	Revised BSD	Portal for ArcGIS 10.5
Python-dateutil 2.42	BSD	AGDT, AGServer, AEngine 10.4
Python dateutil 2.6.1	BSD	ArcGIS Pro 2.1
Python Requests	Apache License 2.0	Esri Roads and Highways v10.4
Pytz 2015.4	MIT License	ArcGIS 10.4 (desktop, server, engine), ArcGIS Pro 1.2
Pytz 2017.2	MIT License	ArcGIS Pro 2.1
QRCode.js	MIT License	Survey123 Hub v1.10
Qs	BSD	AppStudio for ArcGIS V1.0
Qt Framework 5.4/5.4.1	GNU Lesser General Public License 2.1	ArcGIS Runtime SDKs 10.2.x
Quill ImageResize Module v 3.0.0	MIT License	Insights for ArcGIS 3.0
Quill Rich Text Editor	BSD 3 Clause	Survey123 website, 2.3 release
QJson Library	GNU Lesser General Public License 2.1	ArcGIS Runtime SDKs 10.2.x

Quartz 2.2.2	Apache License 2.0	Portal for ArcGIS 10.5, ArcGIS Server 10.5
Quartz Enterprise Scheduler.NET 2.3.3	Apache License 2.0	ArcGIS Data Reviewer Server 10.5
RabbitMQ	Mozilla Public License 1.1 https://www.rabbitmq.com/mpl.html	ArcGIS Server 10.3.1, ArcGIS GeoEvent Extension for Server
React	MIT License	Web AppBuilder for ArcGIS
Reflect-metadata 0.1.3	Apache License 2.0	Insights for ArcGIS 1.0
ReportLab	BSD	Esri Roads and Highways
Request	Apache License V2.0	ArcGIS WebApp Builder, AppStudio for ArcGIS 1.0
Requests 2.14.2	Apache License V2.0	ArcGIS Pro 2.1
requirejs (r.js)	BSD	Web AppBuilder for ArcGIS (Developer Edition)
ResizeObserver polyfill v1.5.0	MIT License	Business Analyst Web App
Restify	MIT License	AppStudio for ArcGIS V1.0
Restler	MIT License	Web AppBuilder for ArcGIS (Developer Edition)
RGBcolor.js	See use rights statement above for this library	Esri Maps for Cognos, Esri Maps for MicroStrategy
Rome	Apache License 2.0	ArcGIS GeoEvent Extension for Server

Rtree.js	MIT	ArcGIS API for JavaScript
Rxjs 6.2.2	Apache License 2.0	ArcGIS for Insights 3.0
S2TC	MIT	ArcGIS Server 10.6, ArcGIS Runtime 100.x
S3-zip	MIT License	Survey123 Website V3.0
SAAJ 1.1	CDDL + GPL Classpath Exception	Esri Maps for Cognos
SciPy	SciPy License	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 for Server, ArcGIS 10.3.1 Engine, ArcGIS Pro 1.0
SciPy 0.15.1	BSD	AGDT, AGServer, AGEngine 10.4, ArcGIS Pro 1.0
SciPy 0.19.1	BSD	ArcGIS Pro 2.1
Select2	MIT	CityEngine 2017.0
Serve-favicon	MIT	AppStudio for ArcGIS 1.0
Setuptools 36.4.0	MIT	ArcGIS Pro 2.1
SharpKML	Microsoft Public License	Tracking Server 10.3.1
SharpZipLib	Modified GNU Public License	ArcGIS 10.3.1 for Server, Business Analyst Server 10.3.1, Business Analyst Desktop 10.3.1
SharpZipLib	MIT	Drone2Map

ShellJS	BSD	AppStudio for ArcGIS V1.0
Shortid	MIT +no-false-attribs License	Survey123 website, 2.8 release
Simple Logging Façade for Java (SKF4J)	MIT License: http://www.slf4j.org/license.html	ArcGIS 10.3.1 for Server (Spatial Data Server), ArcGIS GeoEvent Extension for Server
SiteMesh	OpenSymphony License (BSD Style)	ArcGIS 10.3.1 for Server (Spatial Data Server)
Six 1.9.0	MIT	AGDT, AGServer, AEngine 10.4
Six 1.10.0	MIT	ArcGIS Pro 2.1
Skia	Google BSD License	ArcGIS Runtime SDKs 10.2.x, ArcGIS Mobile 10.3.1, ArcGIS 10.3.1 for Maritime: Server
SlidingMenu	Apache License 2.0	Collector for ArcGIS
SlimScroll	MIT	AppStudio for ArcGIS 1.0
SmoothProgressBar	Apache License 2.0	ArcGIS Runtime SDKs 10.2.x, Navigator for ArcGIS 2.0
Snowball.NET	Apache License 2.0	ArcGIS 10.3.1 for Server, ArcGIS10.3.1 for Desktop
Spirit JSON Library	MIT License	ArcGIS Runtime SDKs 10.2.x
Splitjs v1.5.4	MIT License	Excalibur V1.0

Spring Framework	Apache License 2.0	ArcGIS GeoEvent Extension for Server, Portal for ArcGIS 10.3.1
Spymemcached	MIT License	ArcGIS 10.3.1 for Server (Spatial Data Server)
Squish DXT Compression Library 1.1	MIT License	ArcGIS 10.3.1 3D Analyst Extension, ArcGIS 10.3.1 for Server, ArcReader 10.3.1
SQLite	Public Domain	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server, ArcGIS Pro 1.0, ArcGIS 10.3.1 Data Reviewer (Server/Desktop/Pro), ArcGIS Runtime SDKs10.2.x, ArcGIS Mobile 10.3.1
SQL Server Spatial Tools	Microsoft Public License	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server
StackWalker	BSD License	ArcGIS Pro 2.3, ArcGIS 10.7
Store.js V1.3.16	MIT License	ArcGIS WebApp Builder
Styled.js	MIT License	Story Maps 2.0
Summernote	MIT License	AppStudio for ArcGIS 1.0
Sunflow Torus and Solvers	MIT License	CityEngine 2017.1
Superagent	MIT License	Web AppBuilder for ArcGIS (Developer Edition)
SVGDOM Ver 0.3.18	MIT License	ArcGIS Pro 2.3
SVProgressHUD 2.2.1	MIT License	ArcGIS Runtime SDK 100.1 for iOS

Swing-layout-1.0.3	GPL	Esri Maps for Cognos
Swipter	MIT	ArcGIS for Local Gov't; Near Me WAB widget
SymPy	BSD	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 for Server, ArcGIS 10.3.1 Engine, ArcGIS Pro 1.0
SymPy 0.7.6	BSD	AGDT, AGServer, AGEngine 10.4, ArcGIS Pro 1.0
Sympy 1.1.1	BSD	ArcGIS Pro 2.1
SystemsJS 0.19.27 SystemsJS 0.19.40	MIT License	Insights for ArcGIS 1.0, Insights for ArcGIS 3.0
Tao.OpenGL 2.0	MIT License	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine
T-digest 3.0	Apache License 2.0	ArcGIS Data Store 10.5
Tether 1.1.1	MIT License	Insights for ArcGIS 1.0
Thinlet 6.0	GNU Lesser General Public License 2.1	ArcGIS 10.3.1 for Server
Three.js r79	MIT	Portal 10.5, ArcGIS Online Web Scene Viewer, ArcGIS API for JavaScript 4.1
TIFF Image (RDO & Core)/Libtiff 4.0.7	Libtiff License/Public Domain	ArcGIS 10.5.1 for Desktop, ArcGIS Pro 2.0, ArcGIS 10.5.1 for Server,
TingoDB	MIT	ArcGIS WebApp Builder

TrueZip	Apache License 2.0	ArcGIS Runtime SDKs 10.2.x
Tslib 1.9.3	Apache License 2.0	Insights for ArcGIS 3.0
TSnackBar	Apache License 2.0	Navigator for ArcGIS 2.0
Turbosquid.com Jet Fighter.obj Jeep.obj	Royalty Free License	ArcGIS Earth V1.8
Twix.js	MIT License	Survey123 Hub v1
Ultimate Grid	Code Project Usage License	Esri Production Mapping 10.3.1
UnitsNet	MIT License	Drone2Map1.1
Unity Application Block	Apache License 2.0	Drone2Map
UrlLib3	MIT License	Esri Roads and Highways 10.4
Url=polyfill v 1.1.1	MIT License	Business Analyst Web App
URL Rewrite Filter	New BSD	ArcGIS 10.3.1 for Server
Velocity	Apache License 2.0	Portal for ArcGIS 103, ArcGIS online
ViewPageIndicator	Apache License 2.0	Navigator for ArcGIS 2.0
Vimeo Player	MIT License	Story Maps 2.0

Watch	Apache License 2.0	Web AppBuilder for ArcGIS (Developer Edition)
Wheel 0.29.0	MIT	ArcGIS Pro 2.1
Wincertstore 0.2	Python License	ArcGIS Pro 2.1
Wine 1.3.8	GNU Lesser General Public License 2.1	ArcGIS 10.3.1 for Server, ArcGIS 10.3.1 Data Store, ArcGIS Runtime SDKs 10.2.x
Wine 1.7.54 Wine 1.7.54 Wine 2.11	LGPL V2.1	ArcGIS for Server 10.4, ArcGIS Runtime 10.4, ArcGIS for Server 10.6, ArcGIS Runtime 10.6
Win_iconv	Public Domain	ArcGIS 10.5
Winser	MIT	Web AppBuilder for ArcGIS (Developer Edition)
World Magnetic Model (WMM)	Public Domain	Esri Production Mapping 10.3.1
WordNet.NET	Apache License 2.0/ WordNet License	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine
WPFAnimatedGIF	Apache License 2.0	Drone2Map
WPF Chrome	MSDN Code Gallery Binary	ArcGIS Mobile 10.3.1
WPF Docking Library	CPOL 1.02	ArcLogistics 10.3.1
WPFThemes	MIT License	Drone2Map

WPF Toolkit	Microsoft Public License	ArcGIS Mobile 10.3.1, ArcLogistics 10.3.1, ArcGIS 10.3.1 for Desktop ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server
WxWidgets 2.8.7	wxWindows Library License	ArcGIS 10.3.1 Engine
XACML 1.2	Sun XACML License	ArcGIS 10.3.1 for Server
XCB	XCB License	ArcGIS Runtime SDKs 10.2.x
XMP Core	BSD	Drone2Map
Xerces C++ 3.1.1 & 3.0.1	Apache License 2.0	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server, ArcGIS Tracking Analyst Extension 10.3.1, ArcReader 10.3.1, ArcGIS Runtime SDKs 10.2 x, Production Mapping 10.3.1
Xerces 3.1	Apache License V2.0	Esri Production Mapping 10.3.1
Xerces-C 3.2.0	Apache License V2.0	ArcGIS for INSPIRE
Xlrd 0.80	BSD	ArcGIS 10.3.1 for Desktop ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server
Xlrd 0.9.3	BSD	AGDT, AGServer, AEngine 10.4
Xlrd 1.1.0	BSD	ArcGIS Pro 2.1

Xlwt 0.7.4	BSD	ArcGIS 10.3.1 for Desktop ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server
Xlwt 1.0.0	BSD	AGDT, AGServer, AGEngine 10.4
Xlwt 1.3.0	BSD	ArcGIS Pro 2.1
XmlToJson Plugin	MIT License: http://opensource.org/licenses/mit-license.php	ArcGIS GeoEvent Extension for Server, Survey123 Hub v1
XML4C 5.0.0	W3C Software Notice and License	ArcGIS 10.3.1 for Server
XMLBeans (9xmlmeans) 2.6.0, 3.0.2.jar	Apache License 2.0	ArcGIS for Server 10.5, ArcGIS for Server 10.7
XSLT C Library(libxml2)	MIT License	ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server, ArcReader 10.3.1
Xstyle	BSD License	ArcGIS API for JavaScript
XVFB for X11	MIT License	ArcGIS 10.3.1 for Server (Linux)
Xvfb 1.18.3 Xvfb 1.19.0	Modified MIT License MIT License	ArcGIS for Server 10.5, ArcGIS for Server 10.5.1
Xvfb 1.19.3	MIT License	ArcGIS Server 10.6
Xvfb 1.20.0	MIT License	ArcGIS Server Linux 10.7, ArcGIS Portal 10.7
Zaphoyd WebSocket++/0.7.0	Modified MIT License	ArcGIS Pro 2.0

ZeroMQ 4.1.4	LGPL 3.0 plus Static Linking Exception	SA Server (aka Collaboration Server) V10.7.1
Zlib Data compression V1.2.8, V1.2.11	zlib license	ArcGIS 10.3.1 for Desktop, ArcGIS 10.3.1 Engine, ArcGIS 10.3.1 for Server, ArcReader 10.3.1, ArcGIS Runtime SDKs 10.2.x, ArcLogistics Navigator 10.3.1, ArcLogistics 10.3.1; ArcGIS 10.3.1 for Maritime: Server, Production Mapping 10.3.1, Esri Production Mapping 10.3.1, ArcGIS Server 10.6, ArcGIS Runtime, ArcGIS Portal 10.6, Datastore 10.6, ArcGIS for INSPIRE
Zlib.js	MIT License	ArcGIS API for JavaScript
Zone.js 0.6.12 Zone.js 0.8.12	MIT License	Insights for ArcGIS 1.0, Insights for ArcGIS 3.0
Zstandard 1.3.4	BSD License	ArcGIS V10.7, ArcGIS Pro 2.3
ZXing CCP	Apache License V2.0	AppStudio for ArcGIS V1.0, Survey 123 for ArcGIS v1
Zxwing-core	Apache License 2.0	ArcGIS 10.3.1 for Server, Portal for ArcGIS 10.3.1, ArcGIS 10.3.1 Data Store
Zxwing-javase	Apache License 2.0	ArcGIS 10.3.1 for Server, Portal for ArcGIS 10.3.1, ArcGIS 10.3.1 Data Store

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